

## AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:  
What is claimed is:

1. (Currently amended) a method for interframe wavelet video coding,  
said method comprising:  
having an encoder for inputting video frames, said encoder comprises  
~~comprising~~ a Motion Compensated Temporal Filtering (MCTF) analyzer, a spatial  
analyzer connected to said MCTF analyzer, a wavelet coefficients entropy encoder  
connected to said spatial analyzer, a packetizer connected to said wavelet  
coefficients entropy encoder to bundle a compressed video content bitstream and a  
compressed motion information (MI) into a single compound compressed bitstream, a  
motion estimator embedded or connected to said MCTF analyzer, and a Motion  
Information (MI) encoder connected to said motion estimator;  
having a decoder for outputting video frames, said decoder comprises  
~~comprising~~ a de-packetizer, a wavelet coefficients entropy decoder  
connected to said de-packetizer, a spatial synthesizer connected to said  
wavelet coefficients entropy decoder, an MCTF synthesizer connected to  
said spatial synthesizer, and an MI decoder connected to said de-packetizer  
and said MCTF synthesizer; and  
having a puller connected to said encoder and said decoder,  
wherein said method is to partition an MI for ~~scalability~~ scaling motion  
vectors as a self-contained, independent layered bitstream, and to  
transfer a partition of said MI to a terminal to achieve ~~said~~ scalability;

and

wherein a number of a compressed frequency bands and a number of the corresponding compressed motion vectors in an output bitstream are not the same; and  
wherein the motion vectors of each of said frequency bands are encoded independently, each having its own bitstream layer structures.

2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Currently amended) The method for interframe wavelet video coding according to claim 1, wherein said MI encoder is to split all motion vectors of all said partitions into a base layer and one or more enhancement layers and to apply MI entropy coding on said base layer and said enhancement layers to compress said MI applied with MI entropy encoding so that wherein an output of [[a]] the compressed MI is obtained by an input of said MI; and said compressed MI can be partially decoded.
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Canceled)
12. (Canceled)
13. (Canceled)
14. (Canceled)

15. (Canceled)
16. (Currently amended) The method for interframe wavelet video coding according to claim 1, wherein said MI decoder is to apply MI entropy decoding on received partial or complete compress MI and combine a base layer and decoded enhancement layers and said MI decoder to form a motion vector so that an output of an MI is obtained by an input of [[a]] said compressed MI applied with MI entropy encoding.
17. (Currently amended) The method for interframe wavelet video coding according to claim 1, wherein said puller is to read bit-rate/frame-rate/image-size information to partition [[a]] said compressed video content bitstream; to decide whether one or more enhancement layers are needed on said bit-rate/frame-rate/image-size; to send the MI of a base layer; and to combine said partitioned compressed video content bitstream and a partitioned MI obtained by partitioning the MI of said enhancement layers according to said bit-rate/frame-rate/image-size, to form [[a]] said compressed bitstream.
18. (Canceled)
19. (Canceled)
20. (Canceled)
21. (Canceled)
22. (Canceled)
23. (Canceled)
24. (Canceled)
25. (Canceled)